

Anti-CD133 Antibody [A8C3-R] - BSA and Azide free

HA610009



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 97 kDa
Clone number:	A8C3-R

Description: CD133 antigen, also known as prominin-1, is a glycoprotein that in humans is encoded by the PROM1 gene. It is a member of pentaspan transmembrane glycoproteins, which specifically localize to cellular protrusions. When embedded in the cell membrane, the membrane topology of prominin-1 is such that the N-terminus extends into the extracellular space and the C-terminus resides in the intracellular compartment. The protein consists of five transmembrane segments, with the first and second segments and the third and fourth segments connected by intracellular loops while the second and third as well as fourth and fifth transmembrane segments are connected by extracellular loops. While the precise function of CD133 remains unknown, it has been proposed that it acts as an organizer of cell membrane topology.

Immunogen: Recombinant protein within human CD133 aa 151-400/865.

Positive control: Caco-2 cell lysate, HT-29 cell lysate, NCCIT cell lysate, SW480 cell lysate, human colon carcinoma tissue.

Subcellular location: Endoplasmic reticulum. Plasma membrane. Cell projection.

Database links: SwissProt: O43490 Human

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at 2-8°C . Avoid freeze.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

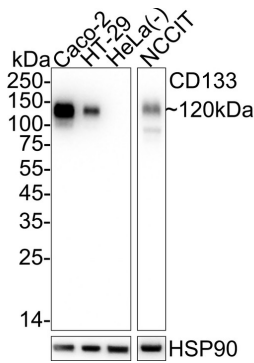
Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: This data was developed using HA601062, the same antibody clone in a different buffer formulation. Western blot analysis of CD133 on different lysates with Mouse anti-CD133 antibody (HA601062) at 1/1,000 dilution.



Lane 1: Caco-2 cell lysate
Lane 2: HT-29 cell lysate
Lane 3: HeLa cell lysate (negative)
Lane 4: NCCIT cell lysate

Lysates/proteins at 20 µg/Lane.

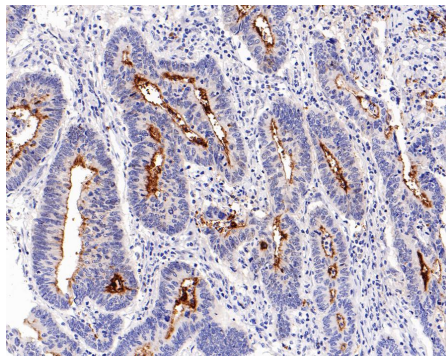
Predicted band size: 97 kDa
Observed band size: 120 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601062) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: This data was developed using HA601062, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue with Mouse anti-CD133 antibody (HA601062) at 1/1,000 dilution.



The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA601062) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

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